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TITLE: MONOCLONAL ANTIBODY RECOGNIZING PHOSPHATIDYL
INOSITOL-3,4- DIPHOSPHATE
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ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a new monoclonal antibody which specifically recognizes phosphatidyl inositol-3,4-diphosphate, and is useful for immunologically determining the phospholipid, and investigating the effect of inhibition of the signal transduction of the phospholipid, etc.

SOLUTION: This is a new monoclonal antibody which has a variable region of the immunoglobulin heavy chain which has the amino acid sequence shown by formula I or an amino acid sequence modified by substituting, deleting, or adding one amino acid or more in, from, or to the amino acid sequence, and specifically binds to phosphatidyl inositol-3,4-diphosphate, and/or a variable region of the immunoglobulin light chain which has the amino acid sequence shown by formula II or an amino acid sequence modified by substituting, deleting, or adding one amino acid or more in, from, or to the amino acid sequence, and specifically binds to phosphatidyl inositol-3,4-diphosphate, and is obtained by culturing a hybridoma (FERM BP-6849).

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